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APPENDIX A: PENDING CLAIMS

130. A non-invasive method for facilitating the diagnosis of a subject for a matrix metalloproteinase –associated (MMP-associated)) cancer, comprising:

obtaining a urine sample from a subject;

detecting the presence or absence of a matrix metalloproteinase in the urine sample; and

correlating the presence of absence of the matrix metalloproteinase with the presence or absence of the MMP-associated cancer, thereby facilitating the diagnosis of the subject for the MMP-associated cancer.

131. A non-invasive method using at least one biological marker to monitor the prognosis or diagnosis of a subject for a matrix metalloproteinase –associated (MMP-associated) cancer, comprising:

obtaining a urine sample from a subject; and
monitoring the prognosis or diagnosis of the subject for an MMPassociated cancer using at least one biological marker including a matrix
metalloproteinase selected for its association with the cancer.

- 132. The method of claim 130 or 131, wherein the MMP-associated cancer is organ-confined prostate cancer.
- 133. The method of claim 130 or 131, wherein the MMP-associated cancer is metastatic prostate cancer.

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- 134. The method of claim 130 or 131, wherein the MMP-associated cancer is in cells of epithelial origin.
- 135. The method of claim 130 or 131, wherein the MMP-associated cancer appears in cells of mesodermal origin.
- 136. The method of claim 130 or 131, wherein the MMP-associated cancer appears in cells of endodermal origin.
- 137. The method of claim 130 or 131, wherein the MMP-associated cancer affects cells of bone or of hematopoietic origin.
- 138. The method of claim 130 or 131, wherein the MMP-associated cancer is a cancer of the nervous system.
- 139. The method of claim 130 or 131, wherein the MMP-associated cancer is a breast cancer.
- 140. The method of claim 130 or 131, wherein the MMP-associated cancer is a retina cancer.
- 141. The method of claim 130 or 131, wherein the MMP-associated cancer is a lung cancer.
- 142. The method of claim 130 or 131, wherein the MMP-associated cancer is a skin cancer.



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- 143. The method of claim 130 or 131, wherein the MMP-associated cancer is a kidney cancer.
- 144. The method of claim 130 or 131, wherein the MMP-associated cancer is a liver cancer.
- 145. The method of claim 130 or 131, wherein the MMP-associated cancer is a pancreatic cancer.
- 146. The method of claim 130 or 131, wherein the MMP-associated cancer is a cancer of the genito-urinary or gastrointestinal tract.
- 147. The method of claim 130 or 131, wherein the MMP-associated cancer is bladder cancer.
- 148. The method of claim 130 or 131, wherein the MMP-associated cancer is a lymphoma.
- 149. The method of claim 130 or 131, wherein the matrix metalloproteinase is a proenzyme.
- 150. The method of claim 130 or 131, further comprising removal of low molecular weight contaminants from the urine prior to the detection step.
 - 151. The method of claim 130 or 131, wherein the urine is dialyzed.



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152. The method of claim 130 or 131, wherein the subject has previously been treated surgically or hormonally.

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- The method of claim 130 or 131, wherein the subject has been treated to block testosterone.
- The method of claim 130 or 131, wherein the matrix metalloproteinase is a 154. gelatinase.
- The method of claim 130 or 131, wherein the matrix metalloproteinase has a molecular weight of approximately 72 kDa.
- 156. The method of claim 130 or 131, wherein the matrix metalloproteinase has a molecular weight o approximately 92 kDa.
- The method of claim 130 or 131, wherein the matrix metalloproteinase has 157. a molecular weight of approximately 150 kDa.
- The method of claim 130 or 131, wherein the matrix metalloproteinase is 158. detected or monitored electrophoretically.
- The method of claim 158, wherein the electrophoretic pattern is a 159. zymogram.

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- 160. The method of claim 130 or 131, wherein the matrix metalloproteinase is detected or monitored immunochemically.
- 161. The method of claim 160, wherein matrix metalloproteinase is detected or monitored by a radio-immune assay.
- 162. The method of claim 160, wherein the matrix metalloproteinase is detected or monitored by an enzyme-linked immunosorbant assay.